

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

NEW HAVEN QUADRANGLE
20 ILL. - 8 IND. - 159 KY.
N3745-W8800/15
DIAGRAM NJ 16-7
PADUCAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Gallatin and White County (Ill.)

Posey County (Ind.)

Union County (Ky.)

Only the permanent marks
are listed for lines
run more than 25 years
before edition date

Final adjustment of 1971

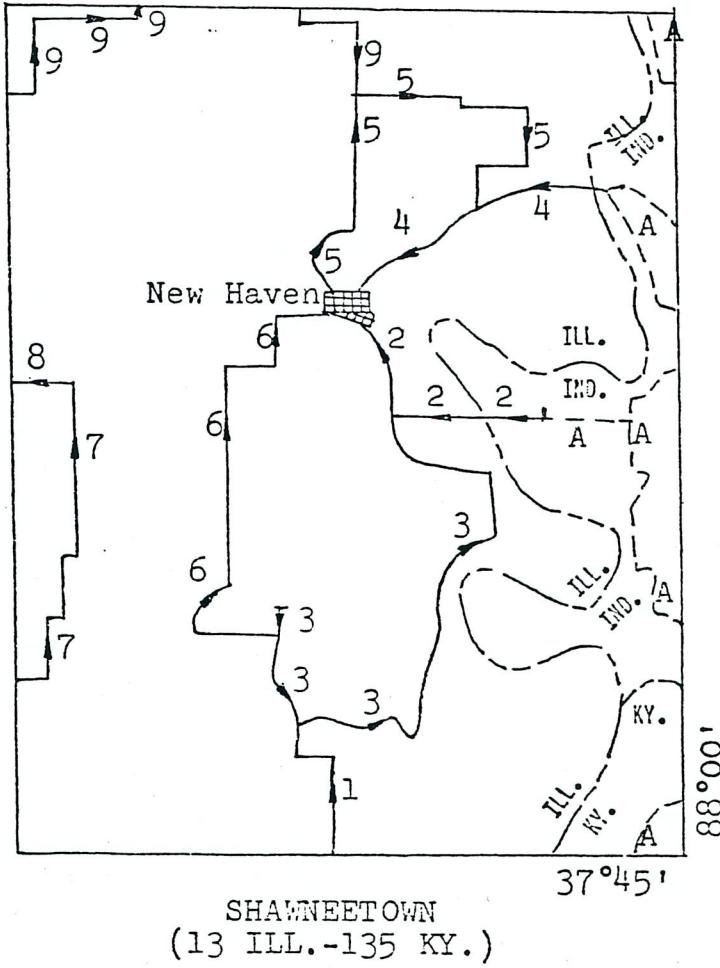
Edition of 1/24/72

PR: DSW/dt

CARMI
(20 KY.-30 ILL.-18 IND.)

ELDORADO
(21 ILL.)

UNIONTOWN
(7 IND.-158 KY.)



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370881

INDEX OF PERMANENT MARKS

<u>MARKS (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (USGS)</u>	<u>PAGE NO.</u>
364	4	TT 12 DWP 1956 368	7,12
365	4	TT 13 DWP 1956	12
369	4	6 LLB 1957 352	5,6
384	4	7 LLB 1957 374	4,5
346 ADJ	3	8 LLB 1957 354	6
362 ADJ	3	9 LLB 1957 343	6
366 ADJ	7,12	10 LLB 1957 353	6
367 ADJ	3	11 LLB 1957 351	6
370 ADJ	5,7,9	11 LLB 1957 380	6,8
377 ADJ	3	12 LLB 1957 378	6
379 ADJ	3	13 LLB 1957 368	7
387 ADJ	3	14 LLB 1957 363	7
405 ADJ	10,11	15 LLB 1957 369	8
430 ADJ	3	2 JRT 1961 371	9
463 ADJ	3	3 JRT 1961 376	10
1908 360	3	9 SAN 1962	11
1908 398	4		
1908 424	3		
1908 442	3		
366 ADJ RESET 1932	5	<u>INDIANA STATE</u>	
TT 11 TWC 1951 353	5	V 183	6
TT 12 TWC 1951 361	5		
TT 5 DWP 1956	5,8	<u>USED</u>	
TT 6 DWP 1956 379	8	49	4
TT 7 DWP 1956 378	8		
TT 8 DWP 1956 370	9	<u>NGS</u>	
TT 9 DWP 1956 404	9		
TT 10 DWP 1956 387	7,7	Q 275	6
TT 11 DWP 1956 366	7		

NEW HAVEN ILL.-IND.-KY.
 Books Bull. 930 and A 935⁴

C. S. Blair

1905

Feet

ISOLATED BENCH MARKS (C. S. Blair, 1905;
 W. A. Gelbach, 1908; S. R. Archer, 1914;
 Books Bull. 930 and A 935⁴)

"463 ADJ" (Destroyed, 1962)	462.203
"430 ADJ" (Destroyed, 1962)	429.308
"367 ADJ" (Destroyed, 1962)	366.010
Inman, 0.7 mi E. of; at SW. corner of junction of rd. W.; on iron post; standard cap stamped "379 ADJ" (Reported not found, 1961)	377.644
Ridgway; just E. of front entrance to Catholic Church; in stone foundation wall; standard tablet stamped "377 ADJ" (Reported not found, 1961)	376.309
Omaha, 6.5 mi E. of; 0.4 mi N., thence 1.5 mi E. of Cottonwood; at NE. corner of junction of T-rd. S.; 12 ft W. of 24-in. hickory tree; on iron post; standard cap stamped "387 ADJ" (Reported destroyed, 1962)	386.385
New Haven, 6.5 mi SE. of; 3 ft E. of USED bench mark 38; on iron post; standard cap stamped "346 ADJ" (Reported not found, 1957)	345.542
Round Pond School; at NE. corner of; on iron post; standard cap stamped "362 ADJ" (Reported destroyed, 1958)	361.651
Brownsville, 1.5 mi S. of; in SE. angle of crossroads; on iron post; standard cap stamped "1908 442"	441.416
Brownsville, 1.5 mi S., thence 2.0 mi E. of, near quarter corner between secs. 9 and 10, T. 6 S., R. 9 E.; at junction of N.-S. rd.; in center of triangular grass plot; on iron post; standard cap stamped "1908 360"	359.265
Brownsville, 4.0 mi E. of; 2.0 mi S., thence 3.5 mi W. of Epworth; near SW. corner sec. 36, T. 6 S., R. 9 E.; opposite T-rd. N.; on iron post; standard cap stamped "1908 424" (Recovered in 1939)	422.964

NEW HAVEN
Book AV 546

ILL.-IND.-KY.

L. L. Bean

1957

FeetLINE 2 (Cont'd.)

New Haven, 2.0 mi S. of; 37 ft S. and 66 ft E. and level with crossroads; in concrete post; standard tablet stamped "6 LLB 1957 352"

351.643

New Haven; in NW. corner of Soudmore and Mathis Bank; standard tablet stamped "370 ADJ"

369.572

LINE 3.

L. L. Bean, 1957; Book AV 546

St. Patricks Church, 0.75 mi S. of; near SE. cor. NE. 1/4 NE. 1/4 25-8-9; near corner fence post in NW. corner rd. fork; standard cap stamped "366 ADJ RESET 1932"

367.888

New Haven, 12.5 mi SE. of; 0.8 mi SE. of St. Patricks Church; 0.3 mi E. of T-rd. E.; 132 ft W. of Y-rd. intersection; 22 ft S. of rd.; 4 ft W. of power pole; 1.5 ft N. of fence; in concrete post flush with ground; standard tablet stamped "TT 5 DWP 1956" (Reported destroyed, 1962)

359.265

"7 LLB 1957 374" (Described in line 1)

373.592

U.E., at drain on S. end of W. concrete abutment of small bridge; chiseled cross

378.31

Shawneetown, 6.0 mi N. of, along gravel rd.; 21 ft E. of center of rd. opposite cross fence line; about 0.19 mi S. of transmission power lines; in concrete post; standard tablet stamped "TT 12 TWC 1951 361"

DESTROYED
5-71
361.434

Shawneetown, 7.4 mi N. of, along gravel rd. to Y-rd., thence 1.0 mi E. right along gravel rd. to dim crossroads; 23 ft W. of woods rd. W.; in SW. edge of cultivated field; 23 ft W. of center of rd.; in concrete post; standard tablet stamped "TT 11 TWC 1951 353" (Reported destroyed, 1959)

353.571

NEW HAVEN
Book AV 546

ILL.-IND.-KY.

L. L. Bean

1957

FeetLINE 4 (Cont'd.)

New Haven, in NW. wingwall of Little Wabash River Bridge on State Highway 141; 1.0 ft N. of E. end of concrete banister; set in drill hole; standard tablet stamped "TT 10 DWP 1956 387"

386.552

"370 ADJ" (Described in line 2)

369.572

LINE 5.

L. L. Bean, 1957; Book AV 546

"TT 10 DWP 1956 387" (Described in line 4)

386.552

New Haven, bridge over Little Wabash River on State Highway 141; 1.9 mi N. along gravel rd.; 3.7 mi S. of Concord (Emma P.O.); 0.8 mi S. of Orange Grove School; 47 ft NW. of NW. corner house; 23 ft E. of rd.; 3 ft N. of power pole; 1.5 ft W. of fence; in concrete post; standard tablet stamped "TT 11 DWP 1956 366"

365.592

New Haven; bridge over Little Wabash River on State Highway 141; 2.8 mi N. of, 1.8 mi S. of Concord (Emma P.O.); 1.0 mi N. of Orange Grove School; at T-rd. E.; 34 ft N. of fence W.; 17 ft W. of N.-S. rd.; 10 ft N. of tree; 2 ft E. of fence; in concrete post; standard tablet stamped "TT 12 DWP 1956 368"

368.125

Emma, 0.8 mi S. of post office; 48.0 mi NE. of bridge over Little Wabash River at New Haven; at crossroads; 21 ft S. of E.-W. rd.; 23 ft E. of N.-S. rd.; 3 ft N. of fence; on iron post; standard tablet stamped "366 ADJ"

365.446

Emma, 0.3 mi N., thence 1.0 mi E. of; 18 ft S.; 27 ft E.; level with crossroads; 3 ft W. of power pole; in concrete post; standard tablet stamped "13 LLB 1957 368" (Reported not found, 1962)

368.066

Emma, 0.3 mi N., thence 3.5 mi E. of; 54 ft S.; 13 ft W.; level with crossroads; 1 ft N. of power pole; in concrete post; standard tablet stamped "14 LLB 1957 363"

365.469

NEW HAVEN
Book CV 1306

ILL.-IND.-KY.

J. R. Tate

1961

FeetLINE 6 (Cont'd.)

Reference mark; 54 ft E. and 36 ft N. of tablet;
 154 ft E. and 54 ft N. and 2.3 ft higher than
 center of T-rd. E.; in SW. root on 2-ft tree;
 on W. side of house; copper nail and washer

378.61

New Haven, intersection of Highway 141 and New
 Haven Road; 4.7 mi SW. of; 3.7 mi SW. of New
 Haven water tank; 1.7 mi E. of Asbury Church;
 at T-rd. W.; 19 ft E. of rd. and 18 ft N.; 18
 ft N. of fence line E.; 27 ft NE. of T-rd.
 intersection; 2 ft W. of fence; in top of
 concrete post; standard tablet stamped
 "TT 8 DWP 1956 370"

DISTURBED
 52471
 369.899

Reference mark; 42 ft S. and 3 ft E. of tablet;
 24 ft S. and 22 ft E. and 2.3 ft higher than
 center of T-rd. W.; rail spike in W. side of
 power pole

371.73

New Haven, intersection Highway 141 and New Haven
 Road; 2.3 mi SW. of; 1.3 mi SW. of New Haven
 water tank; 0.1 mi W. of barn at field rd. N.;
 21 ft N. of rd.; 12 ft E. of field rd.; 2 ft S.
 of fence corner and in line with fence N.; in
 top of concrete post; standard tablet stamped
 "TT 9 DWP 1956 404"

403.695

Reference mark; 21 ft W. and 5 ft S. of tablet;
 9 ft W. and 16 ft N. and 0.9 ft lower than
 center of rd. at field rd. N.; on W. end of
 concrete culvert; painted square

403.37

"370 ADJ" (Described in line 2) (Also in lines
 4 and 6)

369.572

LINE 7.

J. R. Tate, 1961; Book CV 1306

Ridgeway, 0.5 mi E. of; T. 8 S., R. 9 E.; near quarter
 corner between secs. 29 and 30; 67 ft W. and 19 ft S.
 and 2.5 ft below center of crossroads, set in E. end
 of S. concrete headwall; standard tablet stamped
 "2 JRT 1961 371"

371.514

1961

FeetLINE 8.

J. R. Tate, 1961; Book CV 1306

"405 ADJ" (Described in line 7)

405.503

LINE 9.

G. Sandul, 1962; Book CV 1400

U.E., 1.0 mi N. and 0.8 mi E. of tablet, along gravel rd.; near center of E. 1/2 of sec. 19, T. 6 S., R. 9 E.; 42 ft S.; 52 ft W. of, and 1.6 ft lower than extended center of T-rd. S.; in E. side of 12-in. oak tree; rail spike

430.26

U.E., 1.0 mi N. and 1.3 mi E. of, along gravel rd.; near center W. 1/2 sec. 20, T. 6 S., R. 9 E.; 24 ft N.; 25 ft E. of, and 4.0 ft higher than extended center of T-rd. W.; in W. side of telephone pole; rail spike

434.07

U.E., 1.0 mi N. and 1.3 mi E. and 0.8 mi N. of, along gravel rd.; near center SW. 1/4 of sec. 17, T. 6 S., R. 9 E.; at wooden and steel bridge over Lick Creek; 10 ft ENE. along rd. from center of bridge; 8 ft normal and SSE. side of rd.; 4.5 ft lower than center of bridge; on top of concrete foundation of bridge; chiseled square

367.91

Norris City, about 1.2 mi N. and about 5.5 mi E. of; near S. sixteenth cor. between secs. 16 and 17, T. 6 S., R. 9 E.; 43 ft N.; 14 ft W. of, and 3.3 ft lower than center of T-rd. S.; 4 ft NE. of fence corner; 2 ft NE. of telephone pole; in top of concrete post; standard tablet stamped "9 SAN 1962"

373.37

Reference mark; 82 ft SSE. of tablet; 33 ft S. and 17 ft E. of center of T-rd. S.; on E. end of concrete culvert; chiseled square

372.76

U.E., 0.8 mi ESE. of, along blacktop rd.; about 0.1 mi N. of the E. sixteenth cor. between secs. 16 and 21, T. 6 S., R. 9 E.; 37 ft normal and on the SW. side of rd.; on W. end of a 72-in. concrete culvert; chiseled square

379.36

Jogs into Carmi quadrangle

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-088-11
NEW HAVEN QUADRANGLE
20 ILL.-8 IND.-159 KY.
M3745-W3800/15
DIAGRAM MJ 16-7
PADUCAH

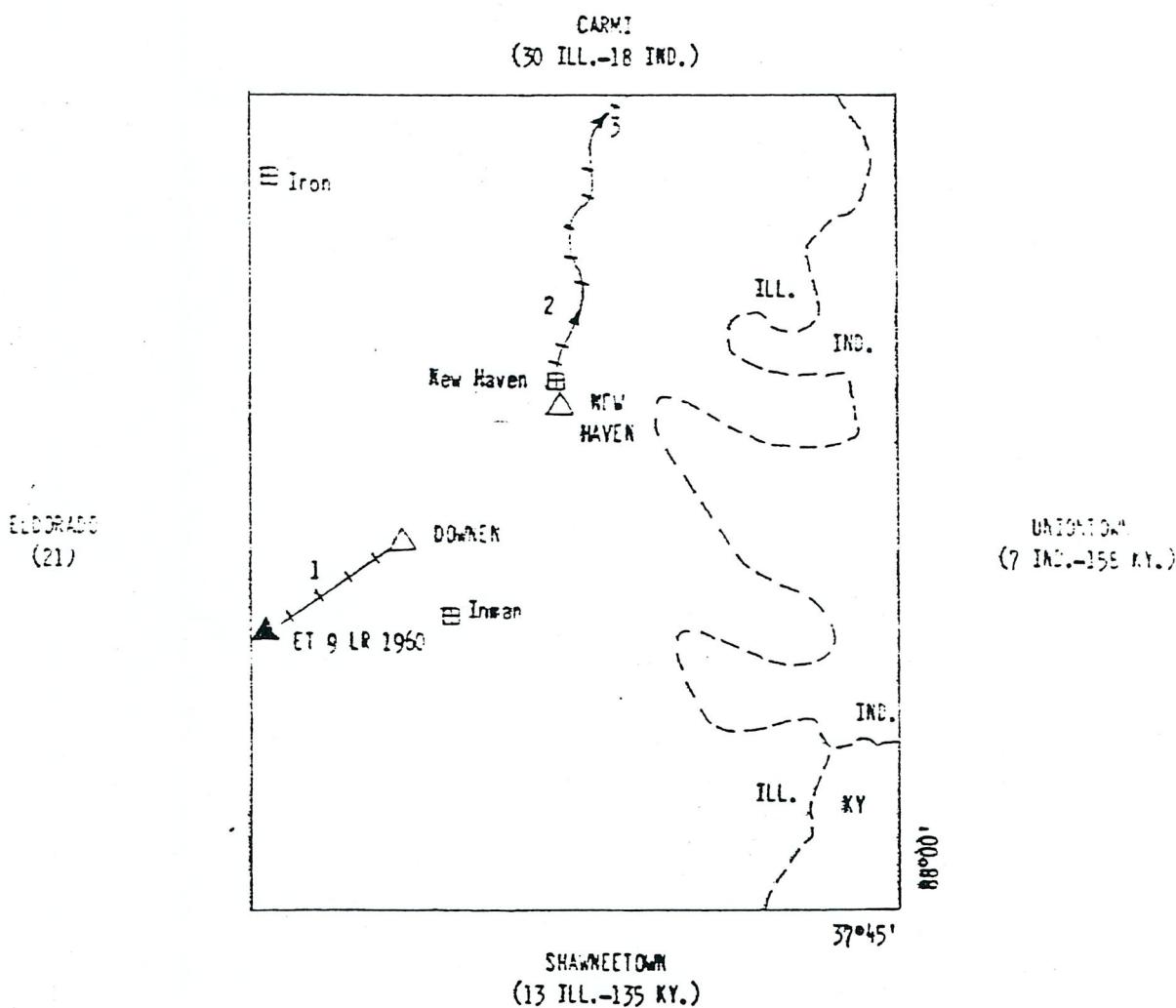
Gallatin and White Counties, Ill.; Posey
County, Ind.; Union County, Ky.

Edition of 2/3/77

PR: CRV/mec

Plane coordinates are based on transverse Mercator
projection, Illinois, East Zone, Indiana, West
Zone, and Lambert projection, Kentucky, South Zone.

Only the permanent marks are
listed for control classified
obsolete and are not shown on
sketch



DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

20 ILL.-8 IND.-159 KY.
NEW HAVEN QUADRANGLE

37-088-11
X3745-W8800/15

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>LINE NO.</u>	<u>STATION NO.</u>
366 ADJ	5	2	
PTS NO 26 ILLINOIS 1908	3		
PTS NO 27 ILLINOIS 1908	3		
TT 9 TWC 1951	3		
TT 10 TWC 1951 353	3		
TT 11 TWC 1951 353	3		
TT 12 TWC 1951 361	4		
TT 4 DWP 1956	3		
TT 5 DWP 1956	3		
TT 6 DWP 1956 379	4		
TT 7 DWP 1956	4		
TT 8 DWP 1956	4		
TT 9 DWP 1956 404	4		
TT 10 DWP 1956 387	5	2	Z=126A
TT 11 DWP 1956 366	5	2	
TT 12 DWP 1956 368	5	2	
TT 13 BWP 1956	5	2	
ET 9 LR 1960	5	1	312
<u>NGS</u>			
DOVER 1957	4	1	310
NEW HAVEN 1957	5	2	1

20 ILL.-8 IND.-159 KY.
NEW HAVEN QUADRANGLE

37-088-11

3

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° °'	° °"

The following positions are considered OBsolete. To be used only to locate permanent marks in the field.

By J. R. Ellis, 1903; Book A1229

Storms, 0.8 mi S. of, thence 2.0 mi E.; 15 ft W. and 10 ft W. of junction of T-rd. N.; on iron post; standard cap stamped "PRIM TRAV STA NO 26 ILLINOIS 1908" (Reported destroyed, 1962)

Xpd. W.)	X = 194,406	Y = 181,959	37 59 41.76	88 08 37.47
----------	-------------	-------------	-------------	-------------

Rising Sun, 0.3 mi SE. of; under center of steel telephone tower; on W. side of Wabash River; on iron post; standard cap stamped "PRIM TRAV STA NO 27 ILLINOIS 1908" (Reported disturbed, 1957)

X	= 226,996	Y = 181,858	37 59 44.44	88 01 25.42
---	-----------	-------------	-------------	-------------

By T. W. Cayce, 1951; Book AH 226

Mouth of Wabash River, about 1.0 mi NW. of, along Illinois bank; at SW. end of woods; 8 ft SE. of right bank of river; in concrete post; standard tablet stamped "II 9 TWC 1951" (Reported not found, 1971)

X	= 221,241	Y = 112,519	37 48 18.24	88 02 53.32
---	-----------	-------------	-------------	-------------

Shawneetown, 7.4 mi N. of, along graveled rd. to Y-rd., thence 3.2 mi right (E.) to end of public graveled rd.; at NE. edge of cultivated field; 34 ft S. of centerline of rd.; 3 ft NE. of 12-in. pecan tree with painted cross; in concrete post; standard tablet stamped "II 10 TWC 1951" (Reported destroyed, 1971)

X	= 212,983	Y = 111,417	37 48 07.09	88 04 36.07
---	-----------	-------------	-------------	-------------

Shawneetown, 7.4 mi N. of, along graveled rd. to Y-rd., thence 1.0 mi E. right along graveled rd. to dim crossroads; 23 ft W. of woods rd. W.; in SW. edge of cultivated field; 23 ft W. of centerline of rd.; in concrete post; standard tablet stamped "II 11 TWC 1951 353" (Reported destroyed, 1959)

X	= 1,321,054	Y = 108,699	37 47 38.91	88 05 59.27
---	-------------	-------------	-------------	-------------

By D. W. Pinkston, 1956; Book AH 442

Shawneetown, 8.0 mi NW. of, along graveled rds.; 15.0 mi SE. of intersection of State Highway 14; and New Haven rd. at New Haven; 4.3 mi SE. of St. Patrick Church; 75 ft NW. of NW. corner of Lynch School District 30; 38 ft W. of fence corner; 22 ft S. of rd.; 20 ft W. of large oak tree; 4 ft W. of power pole; 1 ft N. of fence; in concrete post; standard tablet stamped "II 4 DWP 1956"

X	= 200,214	Y = 106,055	37 47 12.11	88 07 14.39
---	-----------	-------------	-------------	-------------

New Haven, 32.5 mi SE. of; 0.8 mi SE. of St. Patricks Church; 0.3 mi E. of T-rd. E.; 132 ft W. of Y-rd. intersection; 22 ft S. of rd.; 4 ft W. of power pole; 1.5 ft N. of fence; in concrete post flush with ground; standard tablet stamped "II 5 DWP 1956" (Reported disturbed, 1971)

X	= 191,580	Y = 112,996	37 48 19.77	88 09 02.91
---	-----------	-------------	-------------	-------------

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° 1 9	° 1 9

OBsolete MARKS (Cont'd.)

New Haven, intersection Highway 141 and New Haven Road at New Haven; 9.2 mi SW. of; 3.0 mi S. of Asbury Church; 1.7 mi N. of St. Patrick's Church; at crossroads; 23 ft E. of N.-S. rd.; 28 ft N. of E.-W. rd.; 3.7 ft E. of power pole; 2.5 ft SW. of rd. right-of-way post; standard tablet stamped "TI 6 DWP 1956 379"

Ind. W.) X = 186,364 Y = 121,044 37 49 38.72 88 10 09.06

Mt. Vernon, intersection of State Highway 141 and New Haven rd.; 7.1 mi SW. of; 1.0 mi S. of Asbury Church; 3.8 mi N. of St. Patrick Church; at T-rd. E.; 109 ft E. of N.-S. rd.; 18 ft N. of E.-W. rd.; 24 ft W. of drive N.; 2 ft S. of fence; in concrete post flush with ground; standard tablet stamped "TI 7 DWP 1956"

(Reported destroyed, 1971) X = 155,337 Y = 129,972 37 51 06.86 88 10 23.52

New Haven, intersection of State Highway 141 and New Haven rd.; 4.7 mi SW. of; 3.7 mi SW. of New Haven water tank; 1.7 mi E. of Asbury Church; at T-rd. W.; 29 ft E. of rd. and 18 ft N.; 18 ft N. of fenceline E.; 27 ft NE. of T-rd. intersection; 2 ft W. of fence; in concrete post; standard tablet stamped "TI 8 DWP 1956"

(Reported disturbed, 1971)

X = 193,200 Y = 134,196 37 51 49.50 88 08 45.73

New Haven, intersection of State Highway 141 and New Haven rd.; 2.3 mi SW. of; 1.3 mi SW. of New Haven water tank; 0.1 mi E. of barn at field rd. N.; 21 ft N. of rd.; 12 ft E. of field rd.; 2 ft S. of fence corner; in line with fence N.; in concrete post; standard tablet stamped "TI 9 DWP 1956 404"

X = 194,849 Y = 144,856 37 53 35.06 88 08 26.68

MARK TIED BY NGS

By T. W. Cayce, 1951; Book AH 226

Shawneetown, 7 mi NE. of; about 1 mi NE. of NC. end of Shawneetown Hills; 22 ft E. of centerline of graveled rd.; 5 ft SE. of powerline pole; 3.5 ft S. of fence; in concrete post projecting 2 in.; standard tablet stamped "TI 12 TWC 1951 361" (Reported destroyed, 1971)

X = 205,215 Y = 101,026 37 46 22.96 88 05 11.41

THIRD-ORDER ELECTRONIC TRAVERSE

Final adjustment of 1976

LINE 1.

By L. B. Robison, 1960; Book CH 1260

310. NGS standard triangulation station disk stamped "DOCKEN 1957"

X = 179,910.88 Y = 133,730.21 37 51 43.372 88 11 31.348

STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ° °	° ° "

LINE 1 (Cont'd.)

312. Ridgeway, 2.5 mi W. of, thence 1.5 mi E.; near 1/4 cor. secs. 8 and 17, T. 8 S., R. 9 E.; 20 ft N. and 28 ft E. of centerline of rd. at fence S.; 2 ft E. of power pole; in concrete post; standard tablet stamped "IT 9 LR 1960"

In. d W.) X = 165,173 Y = 124,189 37 50 07.29 88 14 33.61

LINE 2.

By K. A. Watkinson, 1962; Book CH 1610

1. NGS standard triangulation station disk stamped "NEW HAVEN 1957"

X = 198,140.83 Y = 143,796.56 37 54 14.380 88 07 46.172

2=126A. New Haven; at Little Wabash bridge on State Highway 141; 1 ft N. of E. end of concrete guard; in drill hole in K.C. wing-wall; standard tablet stamped "IT 10 DWF 1956 387" (The staining of some letters have been defaced and are difficult to read)

X = 198,622 Y = 151,876 37 54 44.87 88 07 40.60

LINE 3.

By R. L. Todd, 1963; Book AH 776

"IT 10 DWF 1956 387" (Described in line 2)

X = 198,622 Y = 151,876 37 54 44.87 88 07 40.60

New Haven, bridge over Little Wabash River on State Highway 141; 1.9 mi N. along graveled rd.; 3.7 mi S. of Concord (Emma P.O.); 0.8 mi S. of Orange Grove School; 47 ft N.W. of N.W. corner house; 23 ft E. of rd.; 3 ft N. of power pole; 1.5 ft W. of fence; in concrete post; standard tablet stamped "IT 11 DWF 1956 366"

X = 197,707 Y = 158,899 37 55 54.19 88 07 53.00

New Haven; bridge over Little Wabash River on State Highway 141; 2.8 mi N. of, 1.8 mi S. of Concord (Emma P.O.); 1.0 mi N. of Orange Grove School; at T-rd. E.; 34 ft N. of fence W.; 17 ft W. of N.-S. rd.; 10 ft N. of tree; 2 ft E. of fence; in concrete post; standard tablet stamped "IT 12 DWF 1956 365" (Not found, 1975)

X = 200,594 Y = 165,996 37 57 04.67 88 07 17.96

Emma, 0.8 mi S. of; 4.8 mi N.E. of bridge over Little Wabash River at New Haven; at crossroads; 21 ft S. of E.-W. rd.; 23 ft E. of N.-S. rd.; 3 ft N. of fence; on iron post; standard cap stamped "366 ADJ"

X = 200,741 Y = 171,233 37 57 56.45 88 07 16.85

Concord (Post Office), 1.6 mi N.W. of; 7.1 mi SW. Maumie Depot; 0.9 mi SW. of large colonial white frame house with pillars and red tile roof; near quarter cor. between secs. 17 and 20, T. 6 S., R. 10 E.; 22 ft N.; 26 ft W. of, and 0.3 ft higher than center of T-rd. N.; 3 ft W. of power line pole; in top of concrete post; standard tablet stamped "IT 13 DWF 1956" (Not found, 1976)

X = 199,817 Y = 181,908 37 59 41.86 88 07 29.88